

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V

DATE: August 6, 1982

SUBJECT: Review of Pristine Inorganic Data
Data Set: SF-1421; Case No. 776

FROM: Marcia A. Kuehl, QC Coordinator
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TO: Kathy Getty
E&E

I have completed my review of Tasks #1 and #2 metals data for 20 water samples submitted for Case No. 776. This work was performed under EPA Contract #WA81-H005 by Chemtech. Quality control audit results and their impact on the data are attached.

If you have any questions regarding this review, please contact me at 353-8370.

cc: Charles Elly
Thomas Yeates

Attachment

Original to Rod Bloese
Copy to Sampling file.

I. QUALITY CONTROL AUDIT RESULTS

A. Blanks

No field blanks were included in this case. Laboratory blanks did not contain any metals at detectable levels.

B. Duplicates

Samples 82-MA07S36 and S40 were analyzed in duplicate.

No precision limits were established in the contract, but chromium precision for sample 82-MA07S36 was poor (50% RPD). This may be attributed to the level being near the detection limit ($\leq 3 \times \text{D.L.}$).

C. Spikes

Both samples chosen as matrix spikes, 82-MA07S36 and S40, gave low recoveries of thallium and lead. Chemtech noted this and reran the analyses for these metals using the method of standard additions. As noted by Dr. John Morris in his comments, no documentation as to the success of this rerun was included. It was not contractually required. Low chromium recovery for sample 82-MA07S36 and low nickel recovery for sample 82-MA07S40 was also discovered. As the recoveries were at least 80%, this should not adversely affect sample data.

II. CONCLUSION

Sample results for lead and thallium cannot be verified due to a lack of supporting documentation. The contract mandated detection limits were not exceeded. Other data is considered acceptable for use.